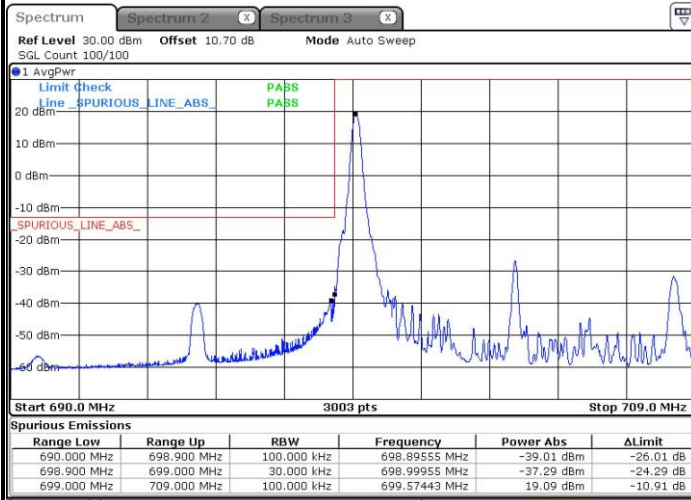


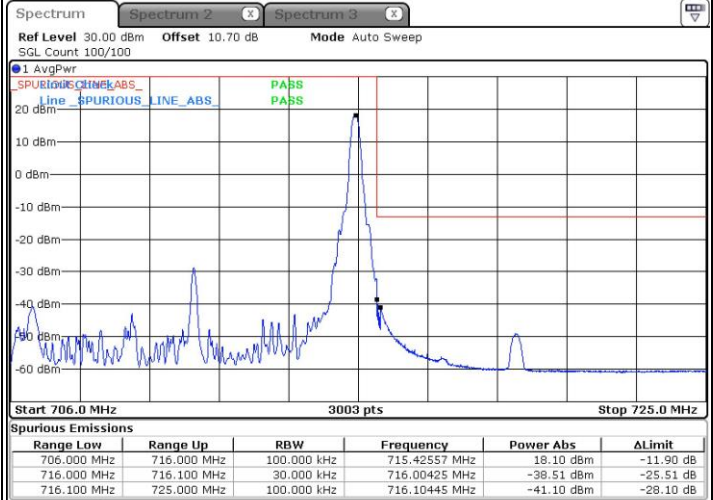


LTE Band 12 / 10MHz / 16QAM

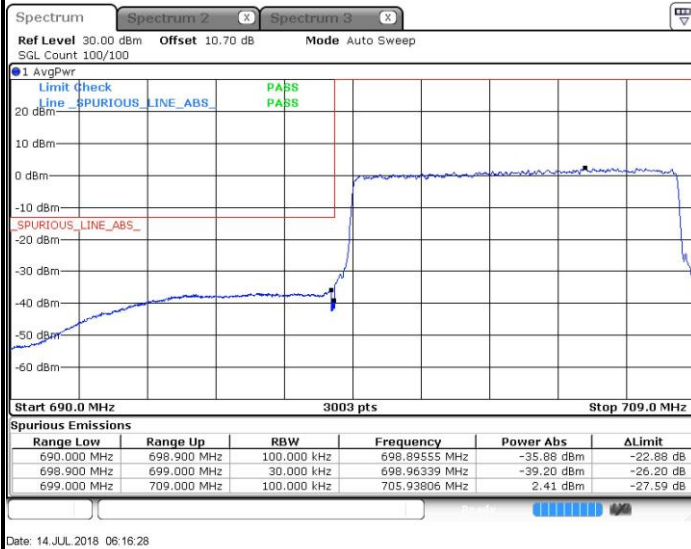
Lowest Band Edge / 1 RB



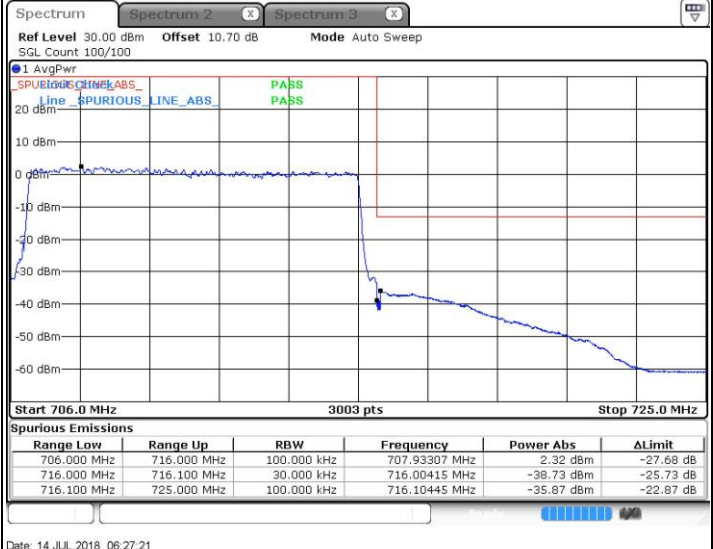
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB



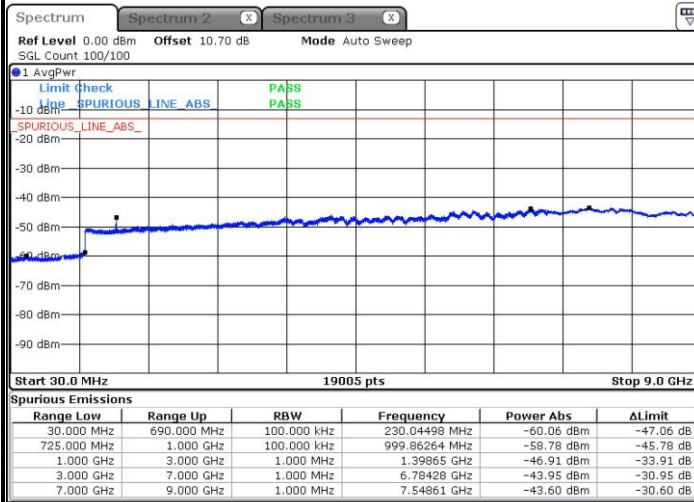


Conducted Spurious Emission



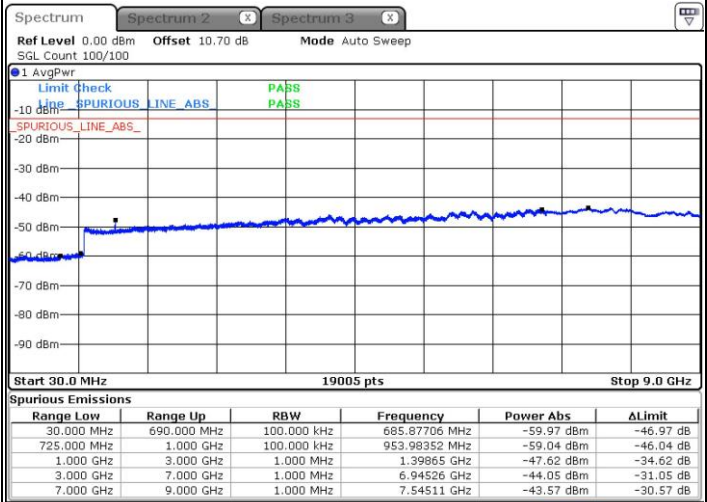
LTE Band 12 / 1.4MHz

Lowest Channel / QPSK



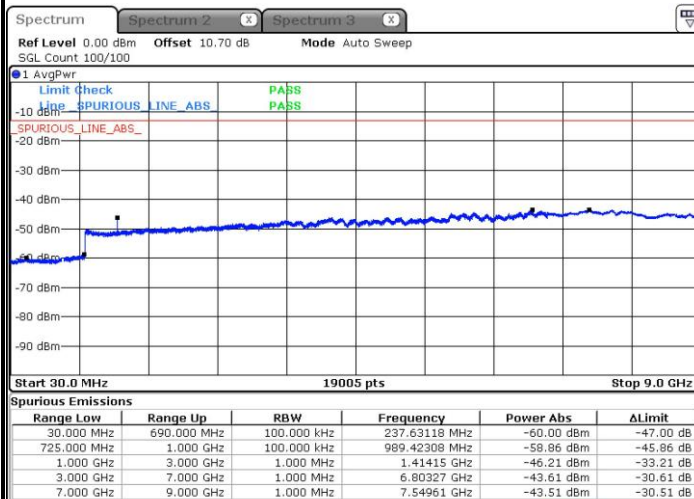
Date: 14 JUL 2018 06:38:39

Lowest Channel / 16QAM



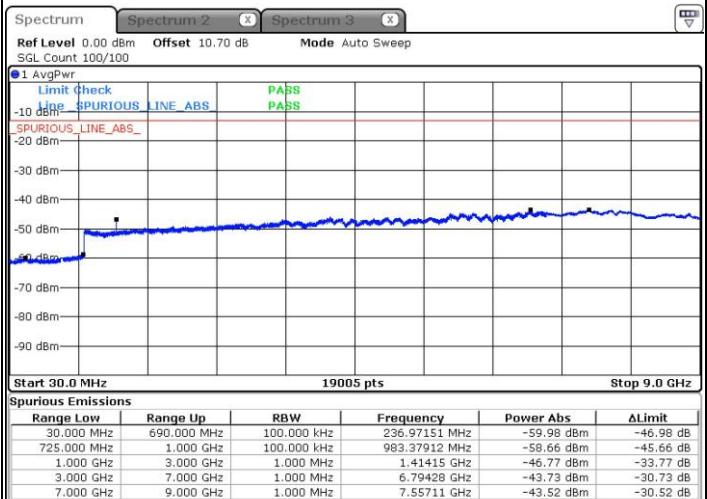
Date: 14 JUL 2018 06:39:49

Middle Channel / QPSK



Date: 14 JUL 2018 06:42:56

Middle Channel / 16QAM

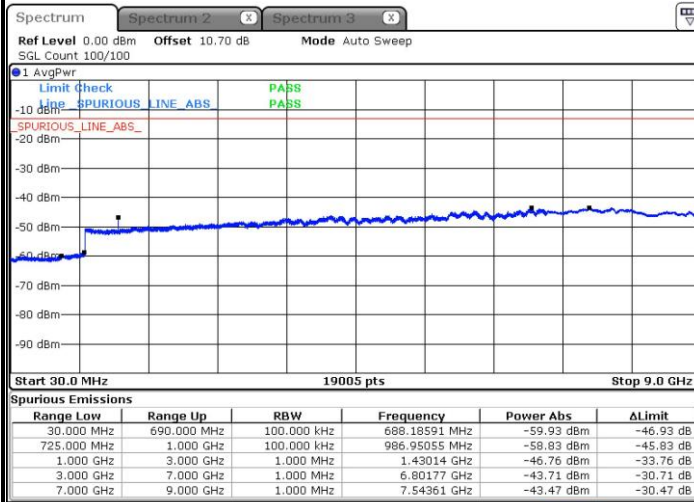


Date: 14 JUL 2018 06:41:45



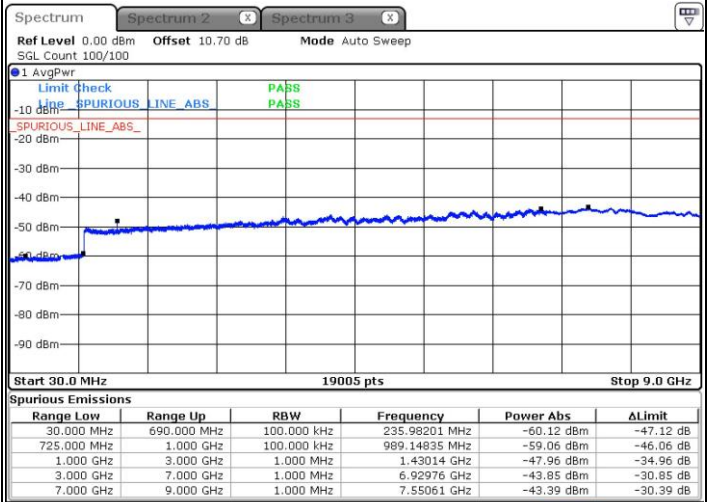
LTE Band 12 / 1.4MHz

Highest Channel / QPSK



Date: 14 JUL 2018 06:49:52

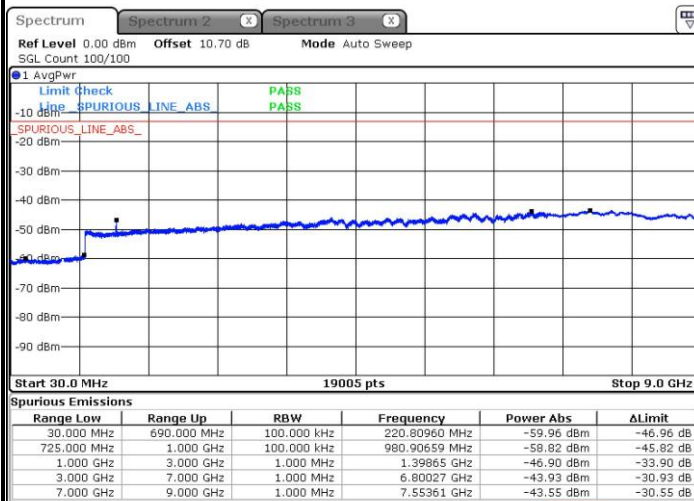
Highest Channel / 16QAM



Date: 14 JUL 2018 06:51:03

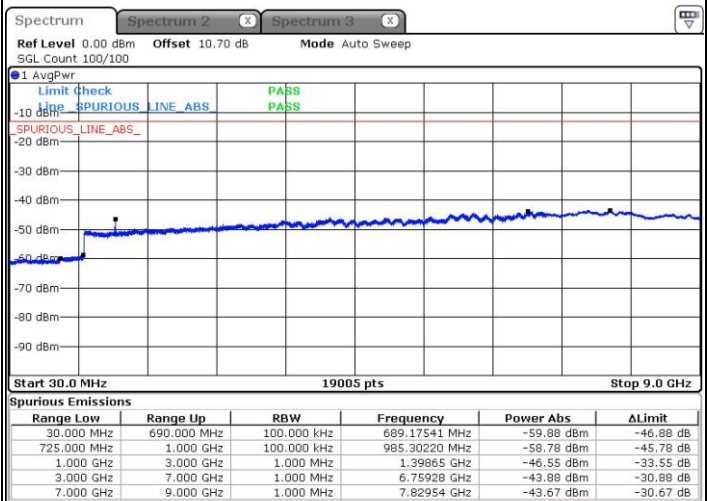
LTE Band 12 / 3MHz

Lowest Channel / QPSK



Date: 14 JUL 2018 05:42:40

Lowest Channel / 16QAM

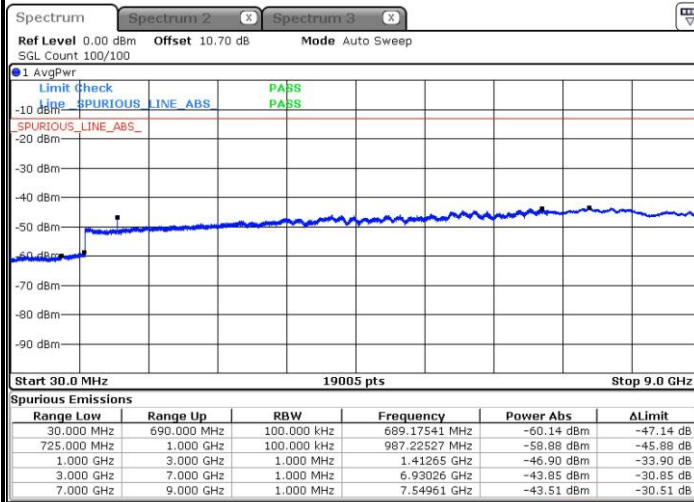


Date: 14 JUL 2018 05:43:50



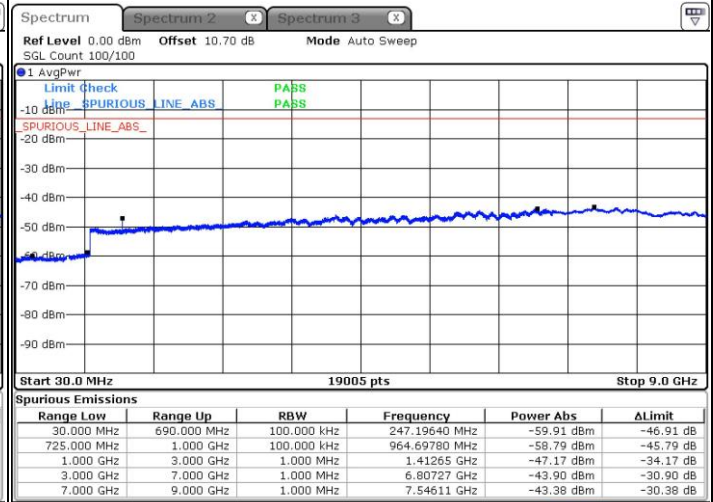
LTE Band 12 / 3MHz

Middle Channel / QPSK



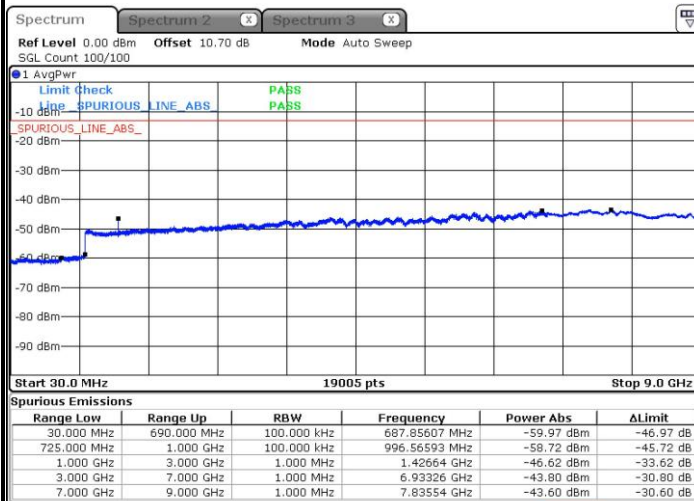
Date: 14 JUL 2018 05:46:57

Middle Channel / 16QAM



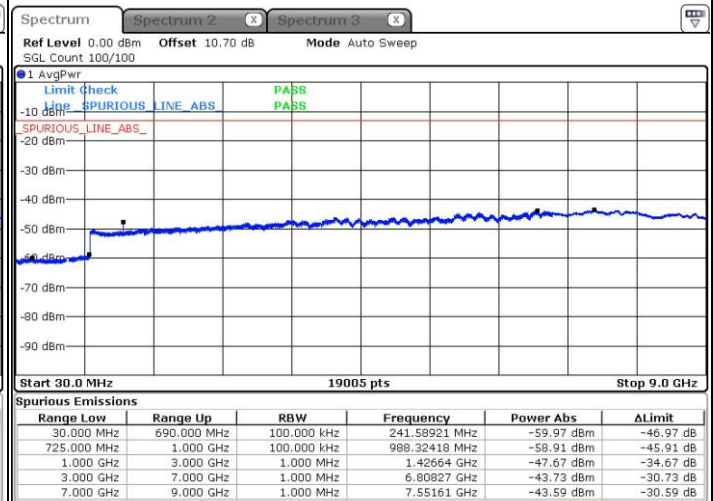
Date: 14 JUL 2018 05:45:46

Highest Channel / QPSK



Date: 14 JUL 2018 05:53:33

Highest Channel / 16QAM

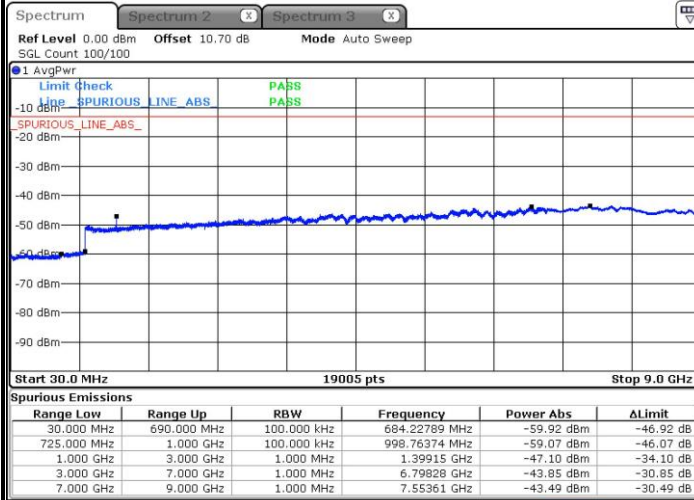


Date: 14 JUL 2018 05:54:43



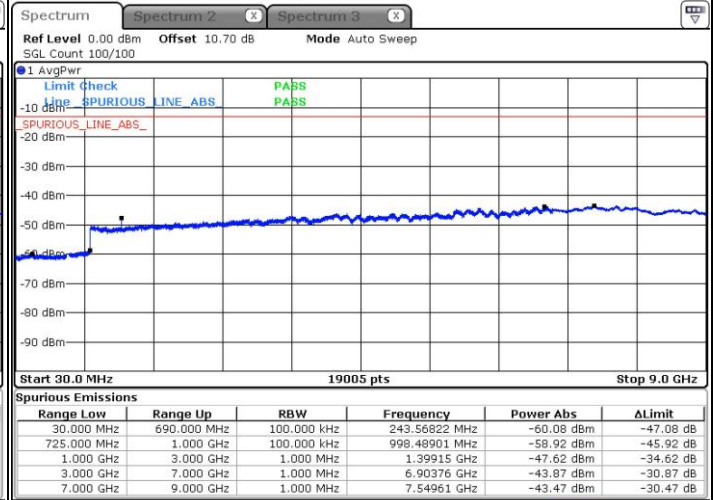
LTE Band 12 / 5MHz

Lowest Channel / QPSK



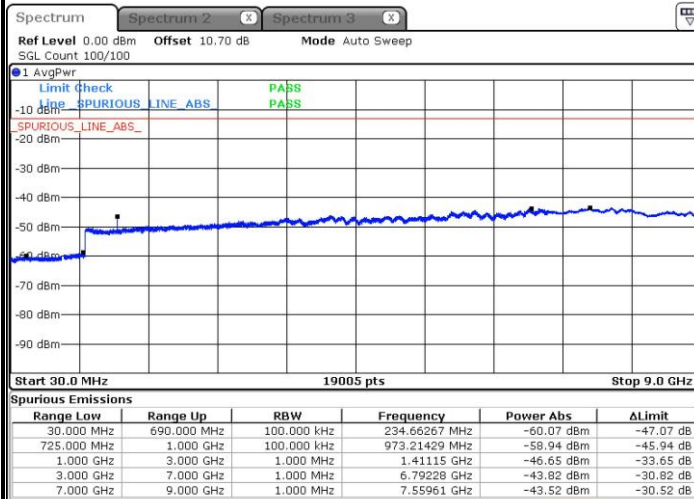
Date: 14 JUL 2018 06:01:20

Lowest Channel / 16QAM



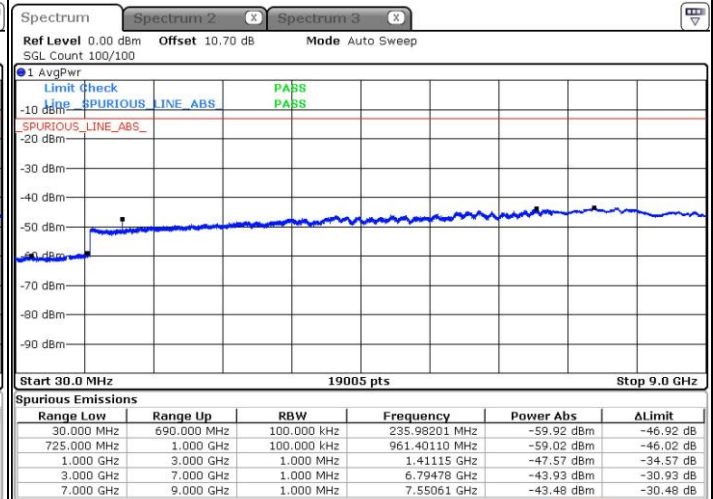
Date: 14 JUL 2018 06:02:30

Middle Channel / QPSK



Date: 14 JUL 2018 06:05:36

Middle Channel / 16QAM

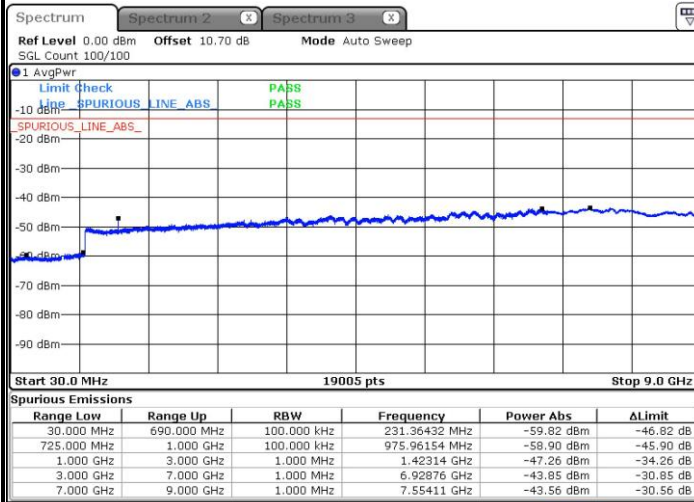


Date: 14 JUL 2018 06:04:26



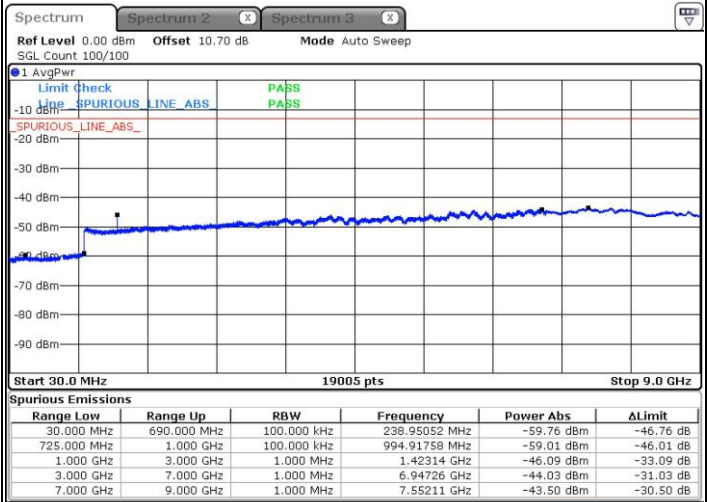
LTE Band 12 / 5MHz

Highest Channel / QPSK



Date: 14 JUL 2018 06:13:22

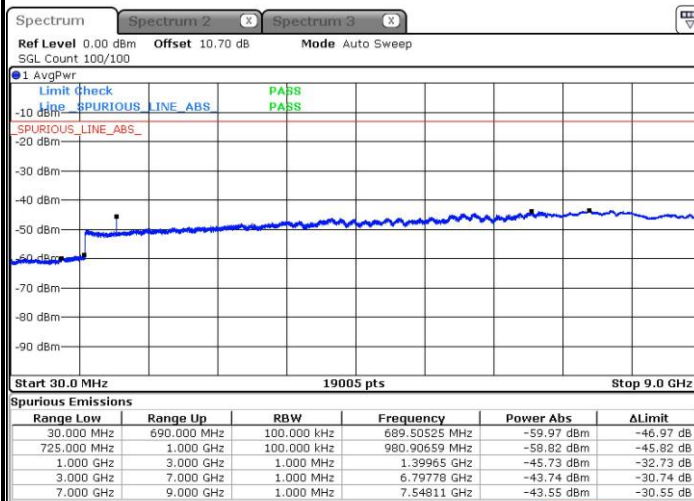
Highest Channel / 16QAM



Date: 14 JUL 2018 06:12:12

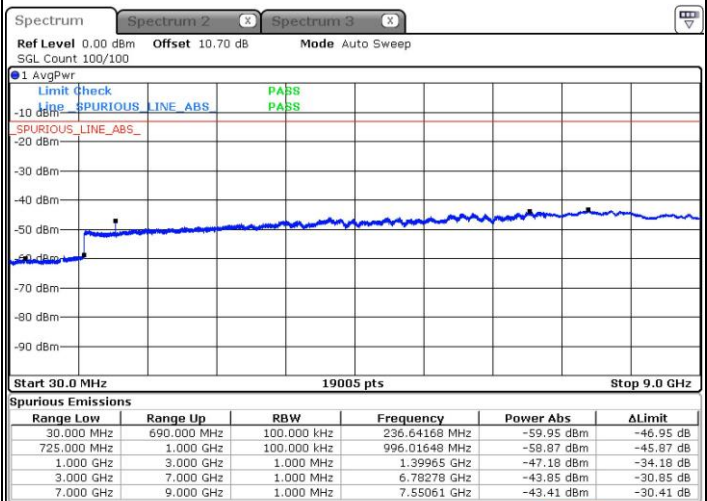
LTE Band 12 / 10MHz

Lowest Channel / QPSK



Date: 14 JUL 2018 06:19:59

Lowest Channel / 16QAM

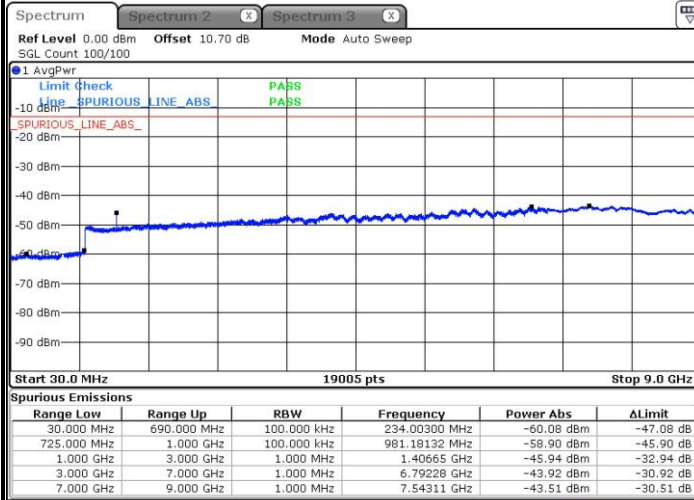


Date: 14 JUL 2018 06:21:09



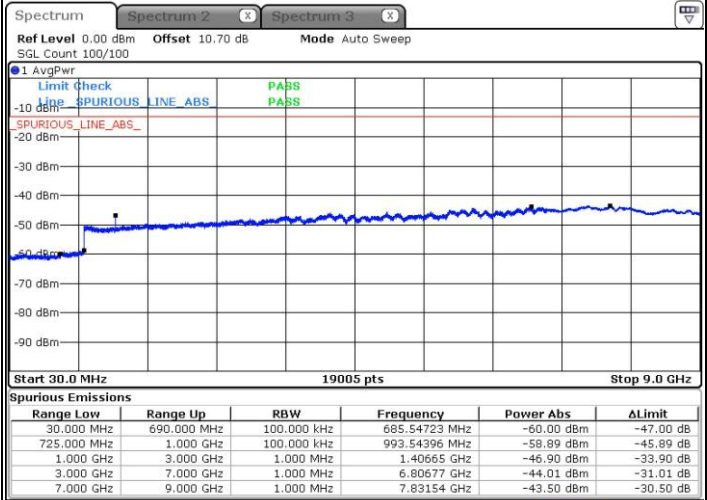
LTE Band 12 / 10MHz

Middle Channel / QPSK



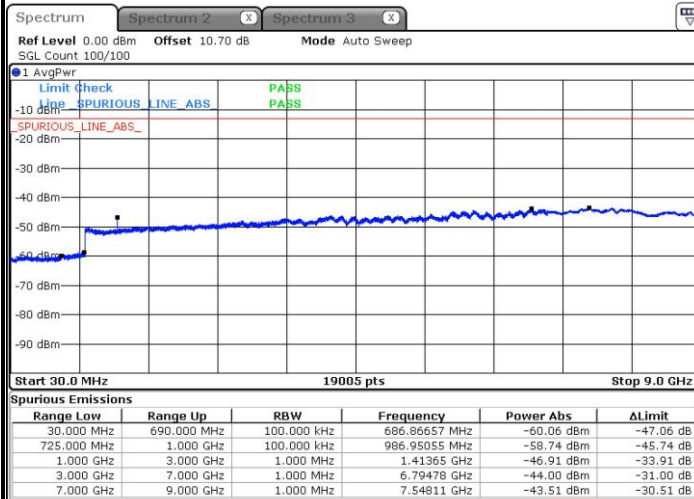
Date: 14 JUL 2018 06:24:16

Middle Channel / 16QAM



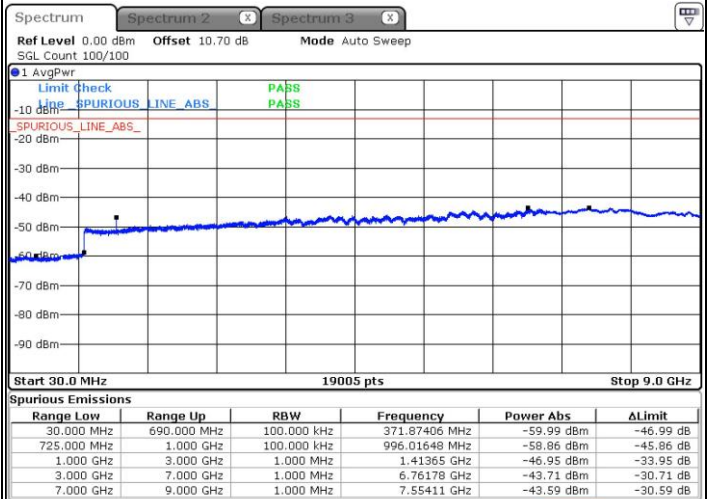
Date: 14 JUL 2018 06:23:05

Highest Channel / QPSK



Date: 14 JUL 2018 06:30:52

Highest Channel / 16QAM



Date: 14 JUL 2018 06:32:03

Frequency Stability

Test Conditions		LTE Band 12 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0127	PASS
40	Normal Voltage	0.0042	
30	Normal Voltage	0.0154	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0102	
0	Normal Voltage	0.0226	
-10	Normal Voltage	0.0096	
-20	Normal Voltage	0.0143	
-30	Normal Voltage	0.0038	
20	Maximum Voltage	0.0044	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0126	

Note:

1. Normal Voltage =54 V. ; Battery End Point (BEP) =44 V. ; Maximum Voltage =57 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.

**LTE Band 13****Peak-to-Average Ratio**

Mode	LTE Band 13 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	-	-	-	-	PASS
Middle CH	4.09	5.01	4.72	5.86	
Highest CH	-	-	-	-	



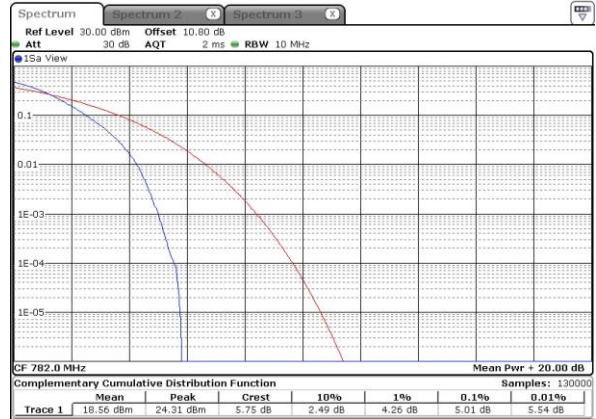
LTE Band 13 / 10MHz / QPSK

Middle Channel/ 1RB



Date: 14 JUL 2018 07:45:51

Middle Channel / Full RB



Date: 14 JUL 2018 07:46:01

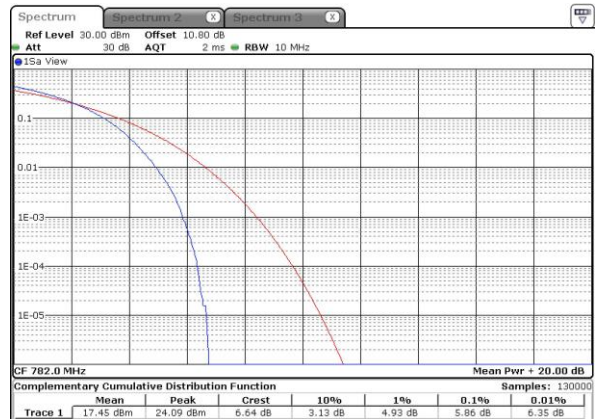
LTE Band 13 / 10MHz / 16QAM

Middle Channel/ 1RB



Date: 14 JUL 2018 07:45:29

Middle Channel / Full RB



Date: 14 JUL 2018 07:45:40

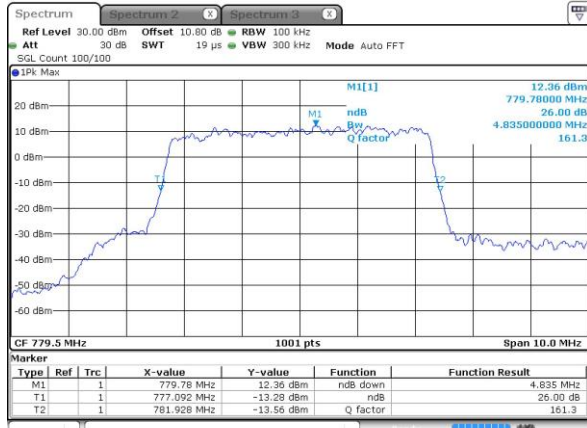
**26dB Bandwidth**

Mode	LTE Band 13 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	4.835	4.835	-	-	-	-	-	-
Middle CH	-	-	-	-	4.955	4.875	9.77	9.75	-	-	-	-
Highest CH	-	-	-	-	4.875	4.875	-	-	-	-	-	-

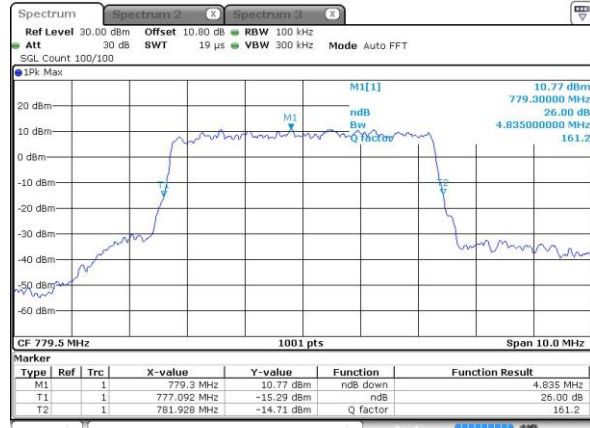


LTE Band 13

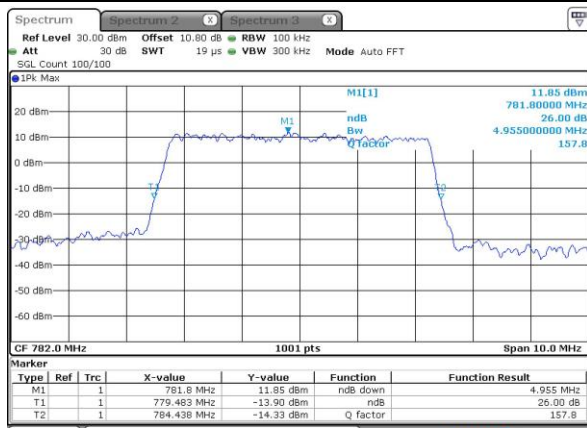
Lowest Channel / 5MHz / QPSK



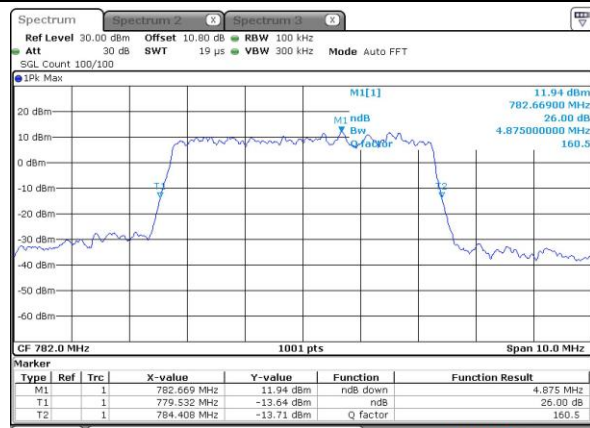
Lowest Channel / 5MHz / 16QAM



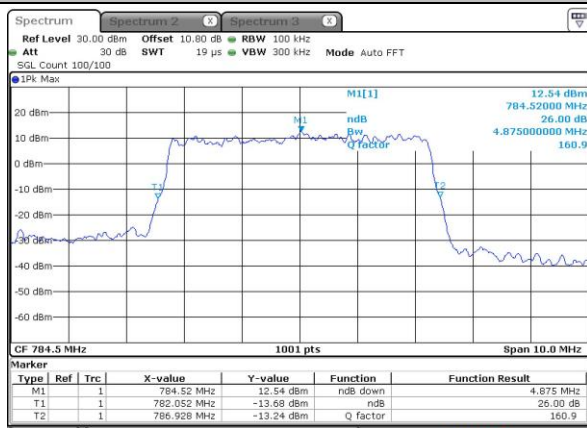
Middle Channel / 5MHz / QPSK



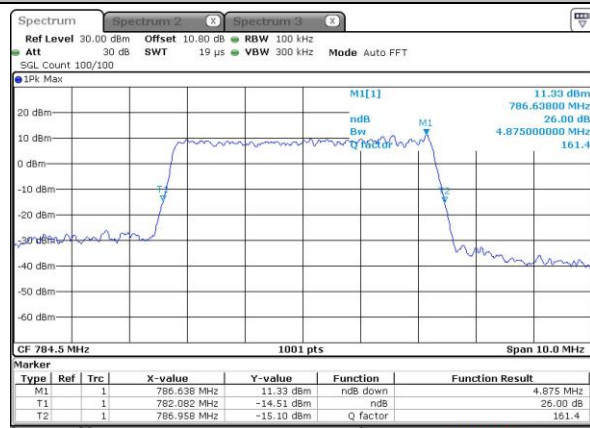
Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK



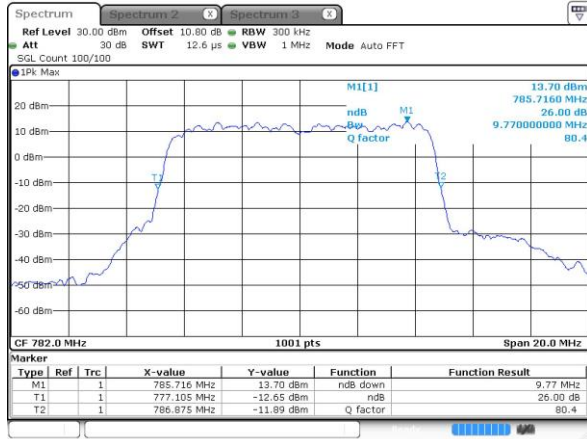
Highest Channel / 5MHz / 16QAM





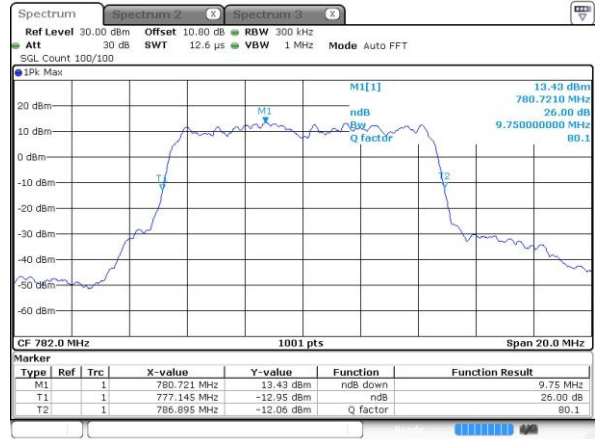
LTE Band 13

Middle Channel / 10MHz / QPSK



Date: 14 JUL 2018 07:26:59

Middle Channel / 10MHz / 16QAM



Date: 14 JUL 2018 07:26:47



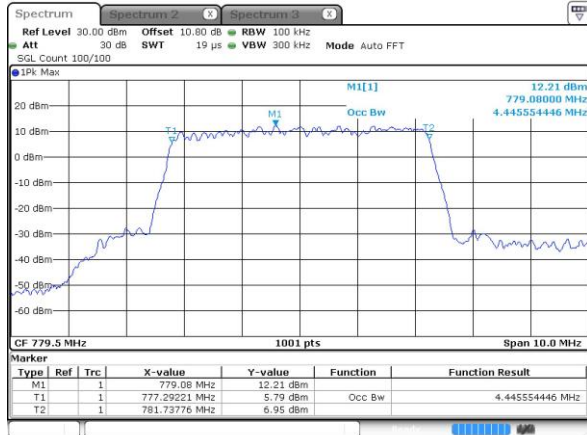
Occupied Bandwidth

Mode	LTE Band 13 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	4.45	4.46	-	-	-	-	-	-
Middle CH	-	-	-	-	4.5	4.49	9.03	8.93	-	-	-	-
Highest CH	-	-	-	-	4.5	4.48	-	-	-	-	-	-

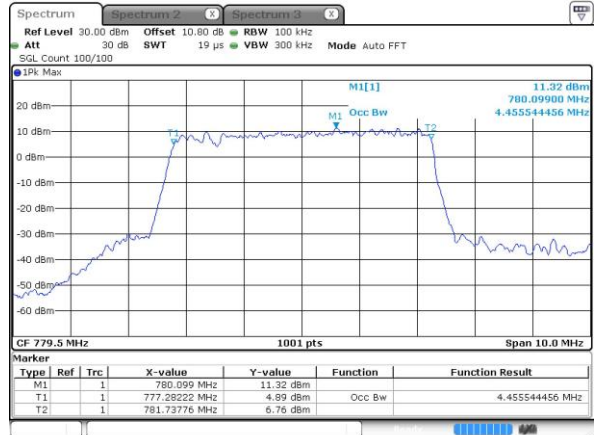


LTE Band 13

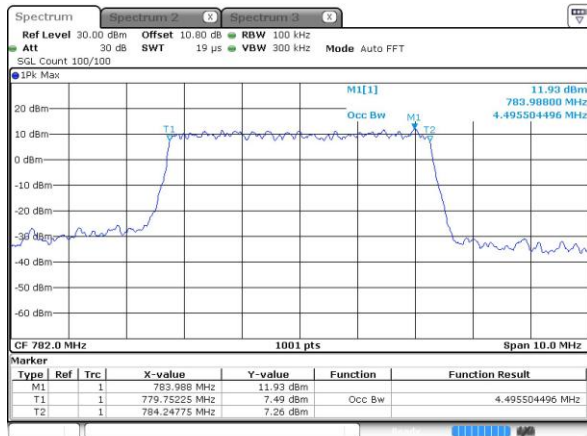
Lowest Channel / 5MHz / QPSK



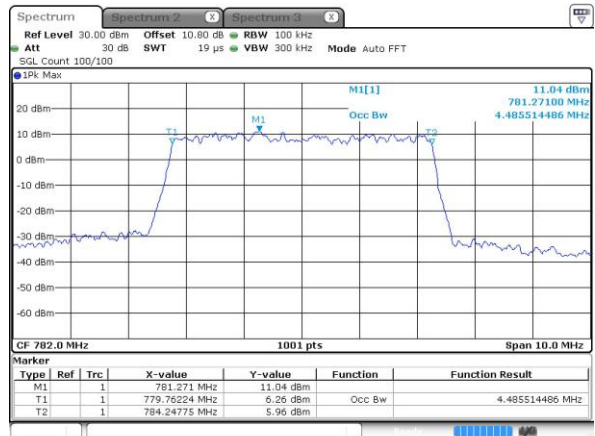
Lowest Channel / 5MHz / 16QAM



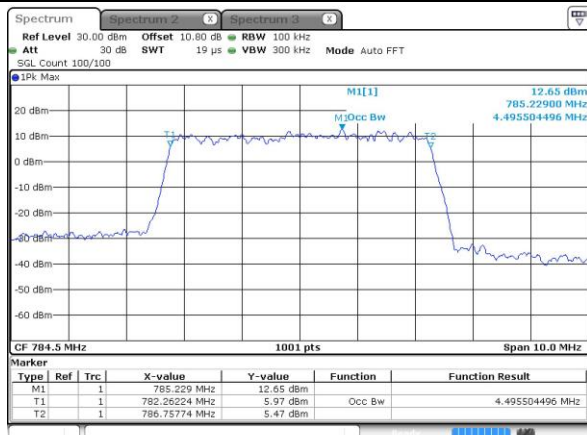
Middle Channel / 5MHz / QPSK



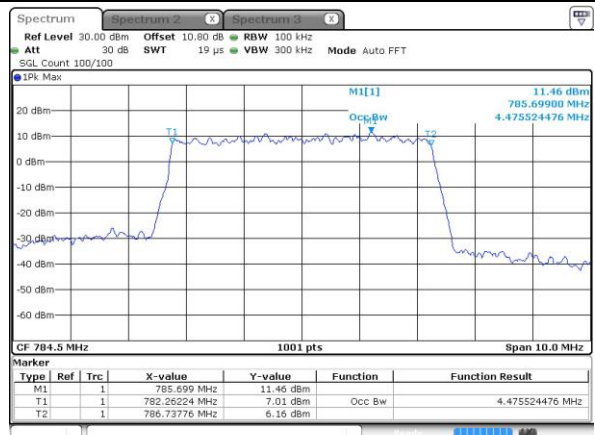
Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK



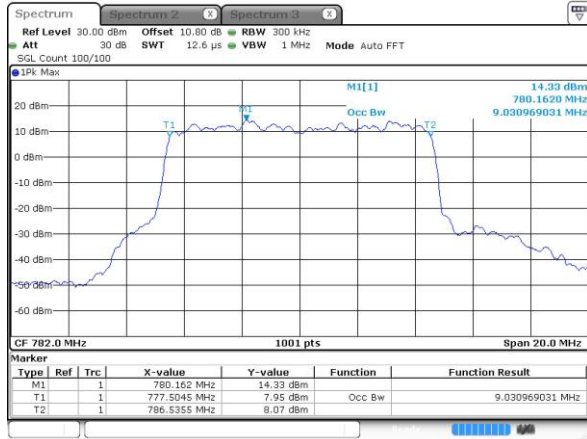
Highest Channel / 5MHz / 16QAM





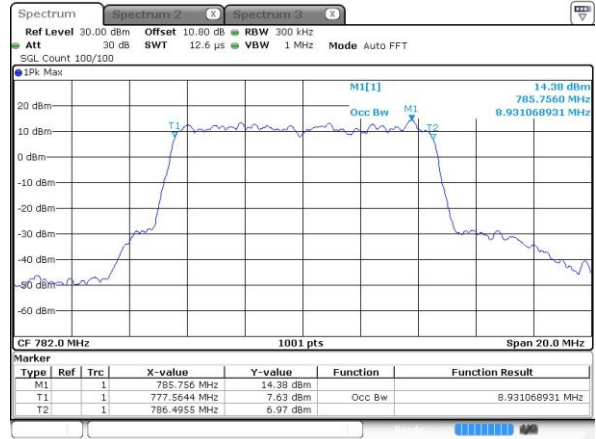
LTE Band 13

Middle Channel / 10MHz / QPSK



Date: 14 JUL 2018 07:26:24

Middle Channel / 10MHz / 16QAM



Date: 14 JUL 2018 07:26:36

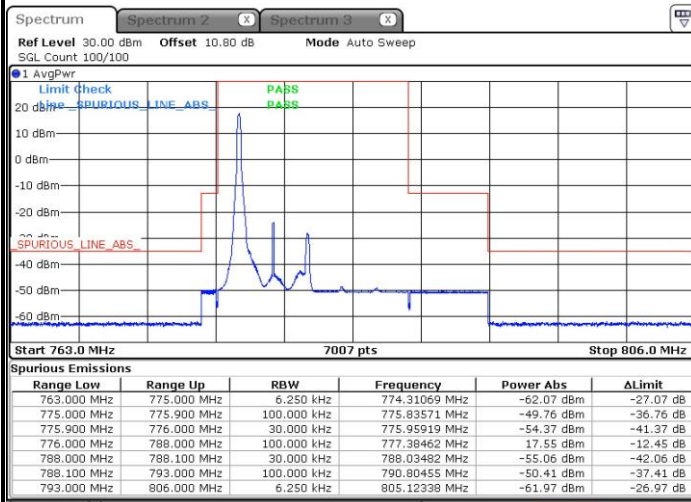


Conducted Band Edge



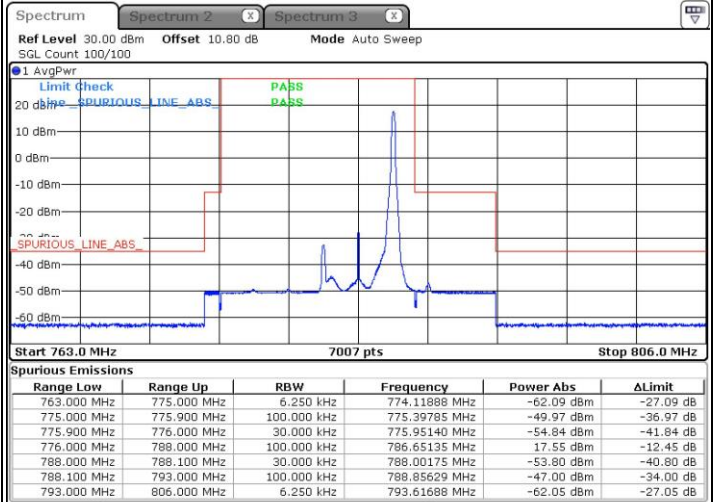
LTE Band 13 / 5MHz / QPSK

Lowest Band Edge / 1 RB



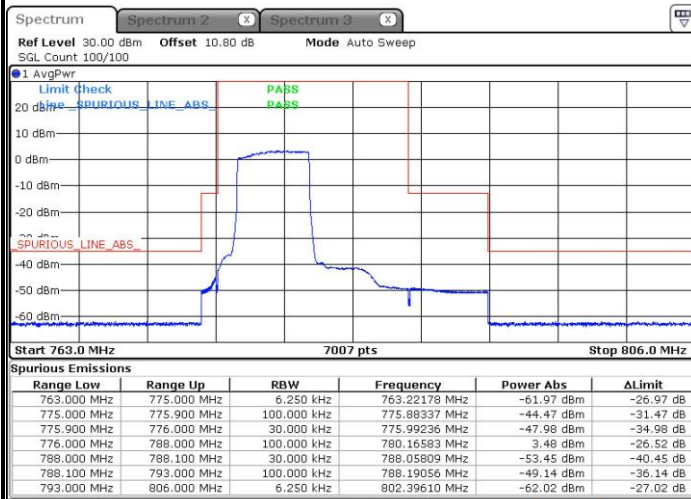
Date: 14 JUL 2018 07:11:00

Highest Band Edge / 1 RB



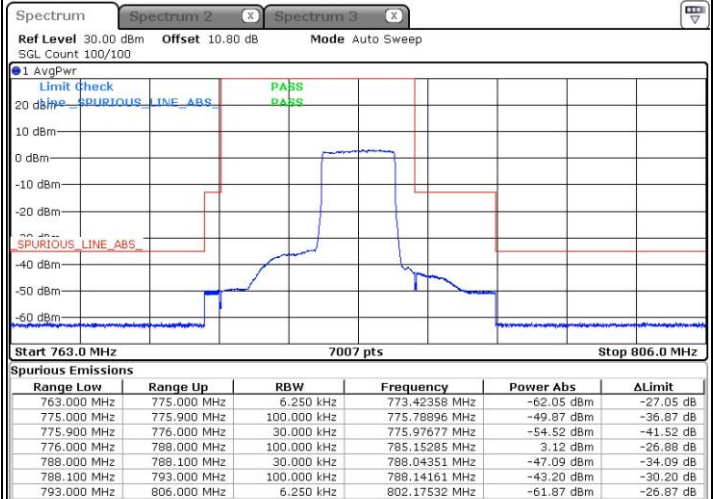
Date: 14 JUL 2018 07:23:53

Lowest Band Edge / Full RB



Date: 14 JUL 2018 07:05:59

Highest Band Edge / Full RB

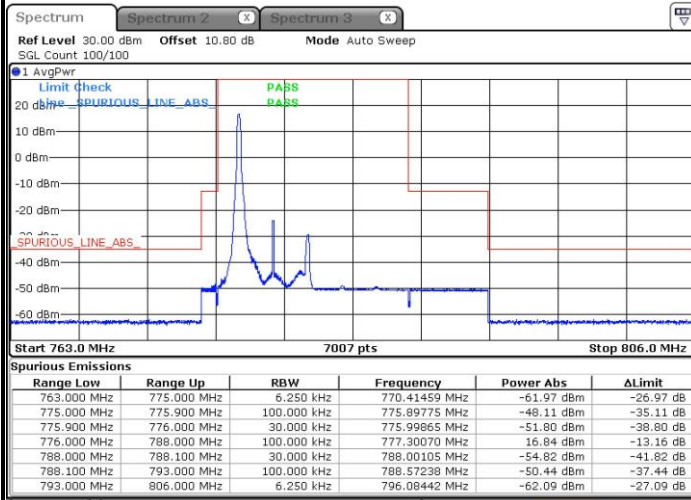


Date: 14 JUL 2018 07:18:52



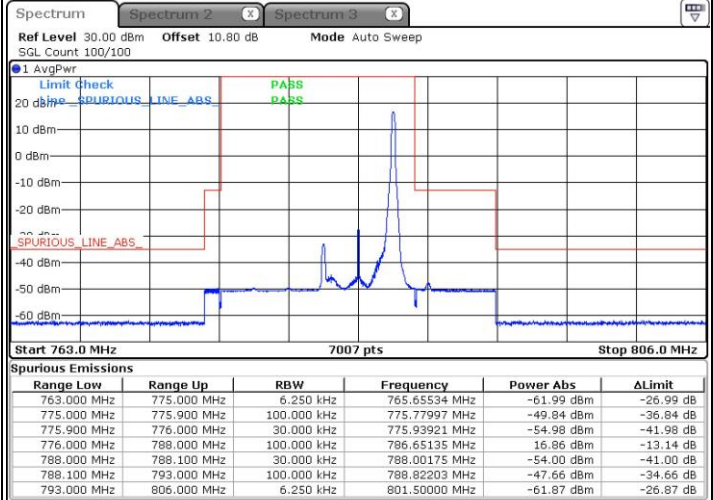
LTE Band 13 / 5MHz / 16QAM

Lowest Band Edge / 1 RB



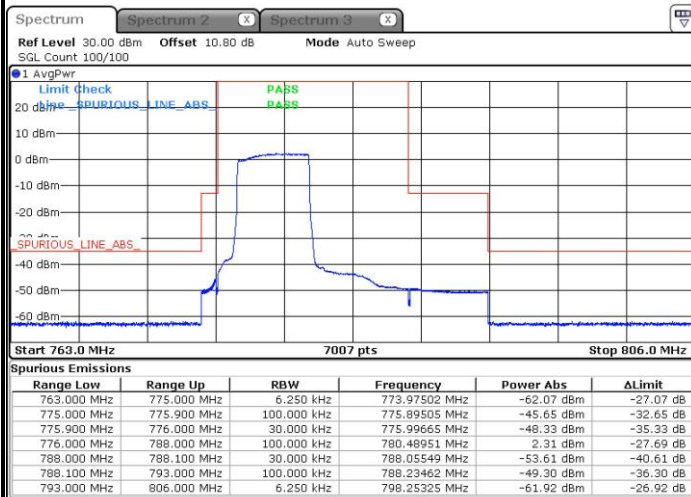
Date: 14 JUL 2018 07:09:20

Highest Band Edge / 1 RB



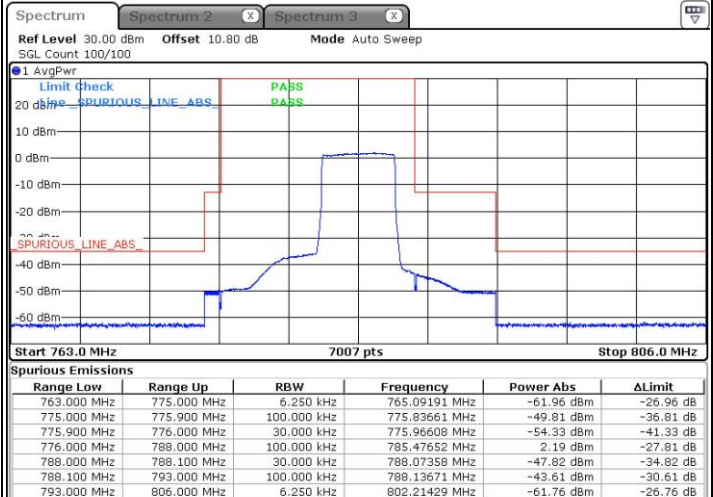
Date: 14 JUL 2018 07:22:12

Lowest Band Edge / Full RB



Date: 14 JUL 2018 07:07:40

Highest Band Edge / Full RB

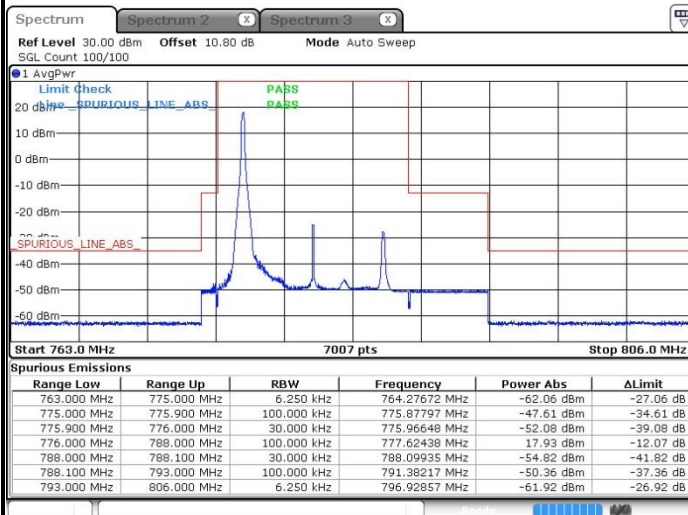


Date: 14 JUL 2018 07:20:32



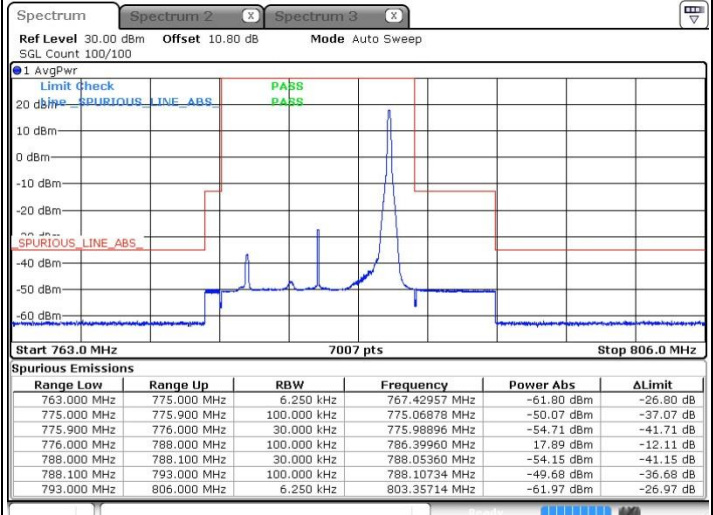
LTE Band 13 / 10MHz / QPSK

Lowest Band Edge / 1 RB



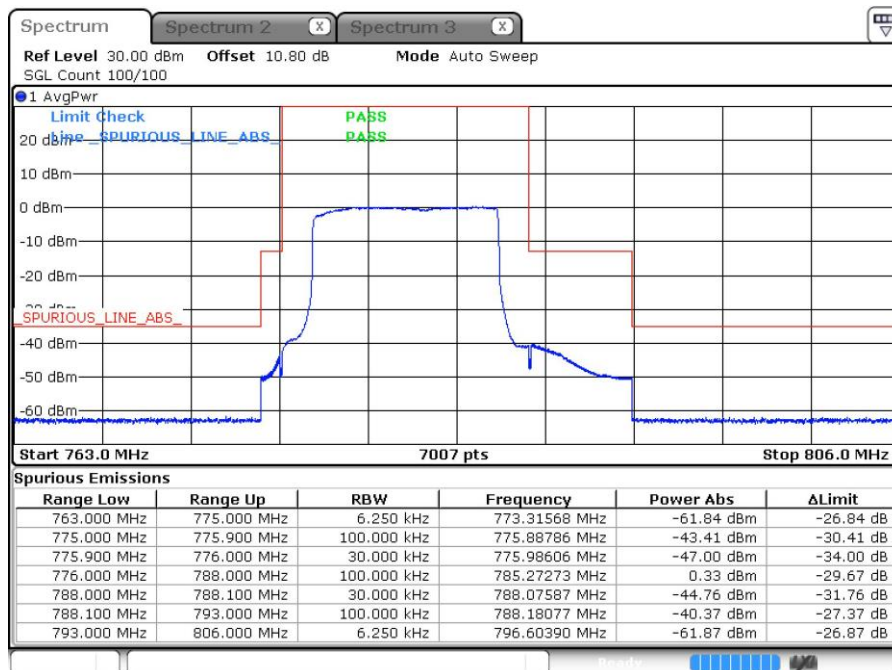
Date: 14 JUL 2018 07:33:39

Highest Band Edge / 1 RB



Date: 14 JUL 2018 07:35:20

Band Edge / Full RB

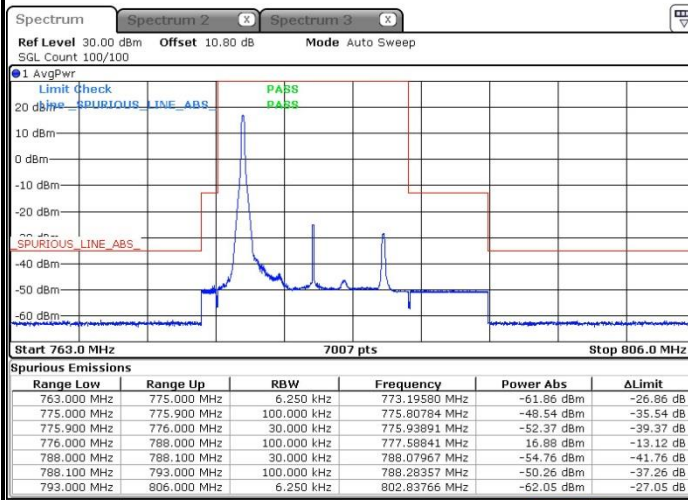


Date: 14 JUL 2018 07:28:38



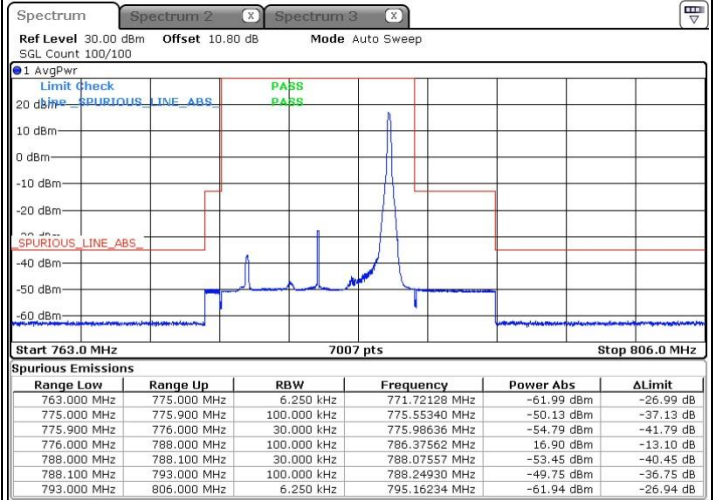
LTE Band 13 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



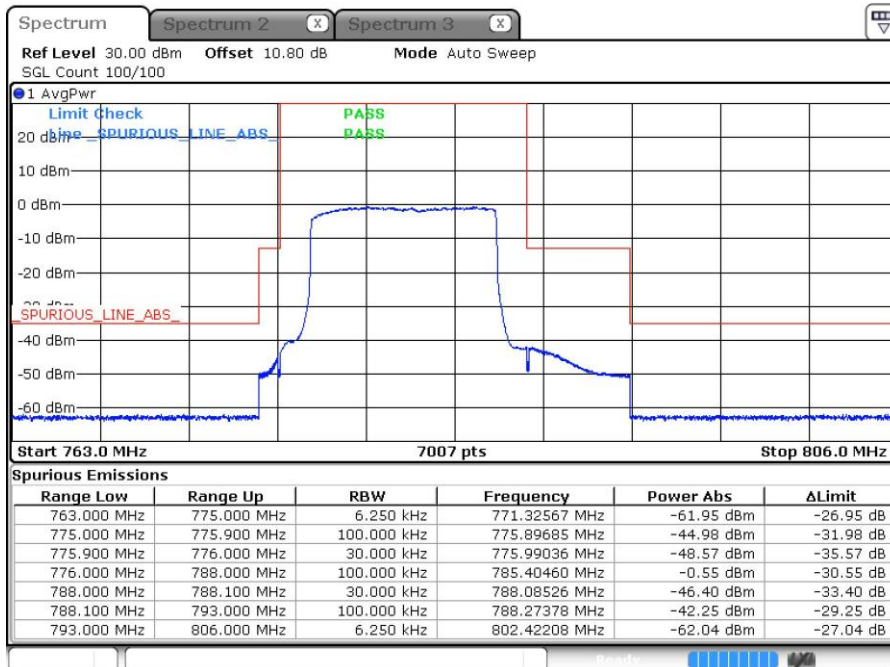
Date: 14 JUL 2018 07:31:59

Highest Band Edge / 1 RB



Date: 14 JUL 2018 07:37:00

Band Edge / Full RB

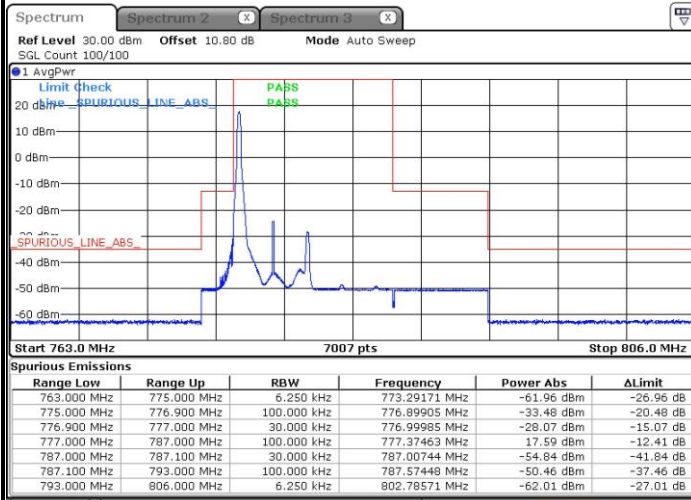


Date: 14 JUL 2018 07:30:19

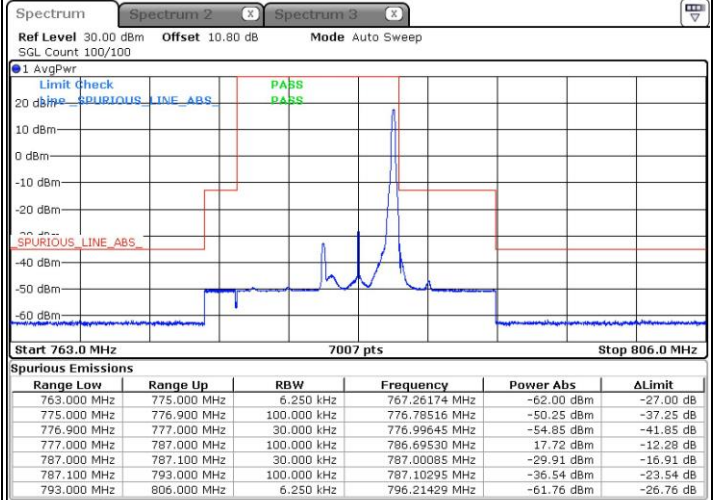


IC LTE Band 13 / 5MHz / QPSK

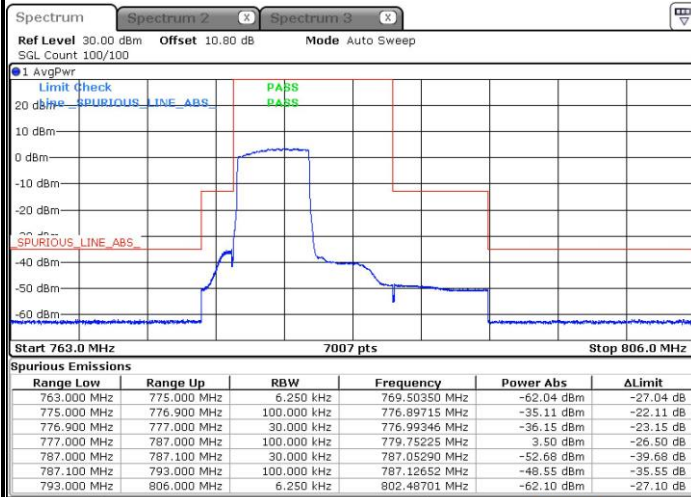
Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

